AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions and listings of claims in the application:

LISTING OF CLAIMS:

1. (Currently Amended) An electrode for a fuel cell comprising:

a catalyst layer; and

a porous polymer having numerous pores of the porous polymer material itself, wherein said catalyst layer contains a solid polymer electrolyte and catalyst particles, and

said porous polymer does not substantially contain anything except its polymer material, does not substantially have an ion-exchange function and is provided in a portion of pores of said catalyst layer or both in said portion and on the surface of said catalyst layer.

- 2. (Cancelled).
- 3. (Currently Amended) An electrode for a fuel cell comprising:
- a catalyst layer;
- a gas diffusion layer; and
- a porous polymer having numerous pores of the porous polymer material itself,
 wherein said catalyst layer contains a solid polymer electrolyte and catalyst particles, and
 said gas diffusion layer contains an electro-conductive porous substrate, and

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said porous polymer does not substantially contain anything except its polymer material, does not substantially have an ion-exchange function and is provided in a portion of pores of said catalyst layer or an inside portion of said substrate.

4-5. (Cancelled).

- 6. (*Previously Presented*) The electrode according to claim 1 or 3, wherein pores of said porous polymer form a three-dimensional network structure.
- 7. (Original) The electrode according to claim 1 or 3, wherein an average diameter of pores in said porous polymer is 1 μm or less.
- 8. (Original) The electrode according to claim 1 or 3, wherein an average diameter of pores in said porous polymer is $0.05~\mu m$ or less.
- 9. (*Previously Presented*) The electrode according to claim 1 or 3, wherein a porosity of said porous polymer is within the range of 45% to 95%.
- 10. (*Previously Presented*) The electrode according to claims 1 or 3, wherein said porous polymer is fluorocarbon polymer.

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- 11. (Withdrawn) A method of manufacturing porous polymer according to claim 1 or 3 comprising the step of: separating a polymer (a) from the solution (c) in which the polymer (a) is dissolved in a solvent (b) by the phase inversion process.
- 12. (Withdrawn) A method of manufacturing porous polymer according to claim 1 or 3 comprising the step of: extracting a solvent (b) from the solution (c), in which a polymer (a) dissolved in the solvent (b), with the non solvent (d) which is insoluble in the polymer (a) and miscible with the solvent (b).
- 13. (Withdrawn) A method of manufacturing an electrode for a fuel cell comprising the steps of:

preparing an electrode (j) comprising a catalyst layer containing a solid polymer electrolyte and catalyst particles;

preparing a solution (c) in which a polymer (a) is dissolved in a solvent (b); allowing said solution (c) to be contained in said electrode; and separating said polymer (a) from said solution (c).

14. (Withdrawn) A method of manufacturing an electrode for a fuel cell comprising the steps of:

preparing an electrode (j) comprising a catalyst layer containing a solid polymer electrolyte and catalyst particles;

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preparing a solution (c) in which a polymer (a) is dissolved in a solvent (b);
allowing said solution (c) to be contained in said electrode; and
extracting said solvent (b) from the said solution (c) with a non solvent (d) which is
insoluble in said polymer (a) and miscible with the solvent (b).

- 15. (Withdrawn) The method according to claim 13 or 14, wherein the electrode (j) further comprises a gas diffusion layer containing the electro-conductive porous substrate.
- 16. (Withdrawn) The method according to claim 13 or 14, wherein said electrode (j) is being joined to the ion-exchange membrane.
- 17. (Withdrawn) A method for manufacturing an electrode for a fuel cell comprising the steps of:

preparing a gas diffusion layer containing an electro-conductive porous substrate; preparing a catalyst layer (k) containing a solid polymer electrolyte and catalyst particles; preparing a solution (c) in which a polymer (a) is dissolved in a solvent (b); allowing said solution (c) to be contained in said gas diffusion layer; separating said polymer (a) from said solution (c); and joining said gas diffusion layer to said catalyst layer (k).

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18. (Withdrawn) A method of manufacturing an electrode for a fuel cell comprising the steps of:

preparing a gas diffusion layer containing an electro-conductive porous substrate;

preparing a catalyst layer (k) containing a solid polymer electrolyte and catalyst particles;

preparing a solution (c) in which a polymer (a) is dissolved in a solvent (b);

allowing said solution (c) to be contained in said gas diffusion layer;

extracting said solvent (b) from said solution (c) with a non solvent (d) which is insoluble in said polymer (a) and miscible with the solvent (b); and

joining said gas diffusion layer to said catalyst layer (k).

- 19. (Withdrawn) The method according to claim 17 or 18, wherein said catalyst layer (k) is being joined to the ion-exchange membrane.
- 20. (Withdrawn) The method according to claim 13, 14, 17 or 18, further comprising the step of: fluorinating said porous polymer.